



**Nov 21, 2016**

## Student Opportunities

### GRAD STUDENTS

**Dec 4, 2016**

Application deadline for [NSF Graduate Research Internship Opportunities at NOAA](#) (NOTE: Applications under the [Geosciences Directorate](#) clause are accepted on an ongoing basis.)

**Dec 9, 2016**

Application deadline for the [NOAA Nancy Foster Scholarship Program](#).

**Dec 15, 2016**

Deadline for statements of interest for the [USGS Science to Action Fellowship](#).

**Jan 27, 2017**

Deadline for students to submit applications to Sea Grant Programs for the [NOAA Fisheries/Sea Grant](#)

## QUEST Quarterly Feature



### NOAA Awards \$11.9 Million to 4 Minority Serving Institutions to Train the Next Generation of NOAA Scientists

Awards were made to 4 lead institutions (Florida A&M, Howard University, City College of New York, and the University of Maryland Eastern Shore) that partner with other schools to form 4 cooperative science centers. Each center trains students in core NOAA disciplines. The [Living Marine Resources Cooperative Science Center](#), led by the University of Maryland Eastern Shore, focuses on fisheries research.

## New and Newsworthy

### Graduate Students Supported by Faculty Receiving Select NSF Funding Now Eligible for Funded Internships at NOAA

Under a new pilot program, students supported by faculty who

**Fellowship Program.**

Fellowships are available in population and ecosystem dynamics as well as marine resource economics.

**UNDERGRADUATES****Jan 31, 2017**

Applications are due for [NOAA Hollings Scholarship](#) and [Undergraduate Scholarship Programs](#).

**Upcoming Events****Mar 22-24, 2017**

[North American Association of Fisheries Economists Forum 2017](#)

Abstract submissions due Jan 6, 2017.

La Paz, Southern Baja California, Mexico

**Aug 20-24, 2017**

[American Fisheries Society Annual Meeting](#)

Symposia proposals due Jan 20, 2017, Paper and poster abstracts due Mar 17, 2017. Tampa, FL

**Sep 18-21, 2017**

[ICES Annual Science Conference](#)

Call for abstracts anticipated in January 2017. Fort Lauderdale, FL

**Oct 30-Nov 17, 2017**

[CAPAM Workshop: Recruitment: theory, estimation, and application in fishery stock assessment models](#)

Miami, FL

**Featured NOAA Resources**

receive funding from the [NSF Geosciences Directorate](#) (includes ocean and atmospheric sciences) are now eligible to apply for NSF-funded [Graduate Research Internship Program opportunities at NOAA](#). Students provide required application materials to faculty, who apply for supplemental funding on their grants. Applications are accepted on a rolling basis. Learn more details about the overall [NSF Graduate Research Internship Program](#).

**Nominations for the 2017 Climate Adaptation Leadership Award, Including Student Category, Due December 9, 2016**

The Climate Adaptation Leadership Award for Natural Resources recognizes exemplary leadership efforts to reduce climate-related threats and enhance the resilience of the nation's fish, wildlife, and plants and the communities that depend on them.

**NOAA Funding Opportunity for Climate Research on Fish Stocks and Fisheries**

A new funding opportunity is available for research to understand climate impacts on fish stocks and fisheries that can inform sustainable management. This opportunity directly addresses priority actions called for in the [NOAA Fisheries Climate Science Strategy](#).

**QUEST Student Collaborates with NOAA Fisheries on Management Strategy Evaluation for Gulf of Mexico Reef Fish**

This past October, University of South Florida College of Marine Science Ph.D. student Michelle Masi successfully defended her thesis, "An ecosystem-based approach to reef fish management in the Gulf of Mexico". Working with QUEST faculty advisor Cameron Ainsworth and NOAA Fisheries scientists, she performed a management strategy evaluation of harvest control rules for Gulf of Mexico reef fish using a biogeochemical Atlantis ecosystem model. She will continue her career as a stock assessment scientist with the Fisheries and Wildlife Research Institute in St. Petersburg, Florida.

**New Program Developed by QUEST Faculty Member Helps San Diego High School Students Make Connections Between Math and Marine Science**

QUEST faculty member Brice Semmens (Scripps Institution of Oceanography) and his lab created a new program called MARES (Math and Research in Ecology at Scripps) that engages San Diego high school students in the more quantitative aspects of marine science. Program participants took part in activities like mark-recapture techniques to estimate crab populations and had the opportunity to consider careers in marine science.

**QUEST Faculty Member to Lead Training in**

### **2015 Fisheries of the United States**

NOAA Fisheries yearbook of fishery statistics for the U.S. for 2015.

### **NOAA Ecosystem-Based Fisheries Management (EBFM) Road Map**

NOAA Fisheries released a new road map to guide implementation of its **EBFM Policy** over the next 5 years.

### **NOAA Fisheries Climate Science Strategy**

A proactive approach to increase the use of climate information in fulfilling NOAA Fisheries' mandates.

## **Featured Web and Data Resources**

### **NOAA Fisheries Stock Assessment Summaries**

Quarterly stock assessment summaries provide the latest information on the status of NOAA Fisheries' assessment activities for federally managed fish stocks.

### **FishStats: A New Toolbox for Spatio-Temporal Analysis of Marine Ecosystems**

Website provides access and documentation for tools that help scientists analyze the spatio-temporal dynamics of marine ecosystems. Learn more about FishStats at the **QUEST webinar** on Dec 15.

## **Additional Resources**

### **Teaching Resources on Ecosystem-Based Management**

## **Reef Fish Reproductive Analysis**

QUEST faculty member Erik Franklin (University of Hawaii at Manoa) will be involved in hosting a June 2017 workshop at the University of Guam Marine Lab that will train participants in rapid, low-cost, histology-based reproductive analysis of reef fishes. A long-term project goal is to develop the capacity for similar independent work on Guam and the Marianas Islands.

## **Student Pathways to Federal Service**

The Federal Government's Pathways Program provides opportunities for students and recent graduates at federal agencies including NOAA Fisheries. See current **Pathways Program opportunities** (note that new opportunities are posted frequently) and learn more about the **program impacts**.

## **Webinars**

### **Nov 30**

**Patterns and processes: spatial and temporal variability in ichthyoplankton assemblages across the Gulf of Alaska**

Esther Goldstein, NOAA Alaska Fisheries Science Center

**Source:** **OneNOAA Science Seminars**

### **Dec 7**

**Regional and climate forcing on forage fish and apex predators in the California Current: new insights from a fully coupled ecosystem model**

Jerome Fiechter, University of California, Santa Cruz

**Source:** **OneNOAA Science Seminars**

### **Dec 7**

**Seasonality in zooplankton and fish assemblages over the eastern Bering Sea shelf in cold years**

Elizabeth Siddon and Lisa Eisner, NOAA Alaska Fisheries Science Center

**Source:** **OneNOAA Science Seminars**

### **Dec 9**

**Optimal sampling design with no bias and minimal spatial autocorrelation**

Sandor Toth, University of Washington

**Source:** **University of Washington, School of Aquatic and Fishery Sciences, Quantitative Seminars**

### **Dec 14**

**Reprise: New England cod collapse and the climate**

Kyle Meng, University of California, Santa Barbara

**Source:** **OneNOAA Science Seminars**

### **Dec 15**

**FishStats: A toolbox for combining stock assessment, habitat, ecosystem and climate research**

Site includes several hands-on activities for teaching students and stakeholders about ecosystem-based management and ecosystem services.

### **NSF-Funded Network for Education and Research in Quantitative Biology**

The Quantitative Undergraduate Biology Education and Synthesis (QUBES) network provides teaching materials, data, and other resources to support undergraduate education in quantitative biology.

Jim Thorson, NOAA Northwest Fisheries Science Center

**Source:** [QUEST Webinar Series](#)

**Jan 10, 24**

**Fisheries Think Tank Series presentations by Merrill Rudd, Kristin Privitera-Johnson, respectively**

**Source:** [Fisheries Think Tank Series](#)

## **Courses**

**Dec 6**

### **Seven Best Practices for Risk Communication**

NOAA Digital Coast: Online, instructor-led course will introduce participants to best practices, techniques, and examples for communicating about coastal hazards.

**Feb 6-10**

### **Statistical Modeling for Conservation**

National Conservation Training Center: Course focuses on modeling trends and population-habitat relationships using R software.

**Feb 15**

### **OpenNSPECT**

NOAA Digital Coast: Online, instructor-led course will teach participants the technical aspects of OpenNSPECT, a GIS-based tool used to estimate runoff, non point source pollution, and erosion.

## **Fall Online Course Feature**

### **Quantitative Biology Workshop**

**edX (MIT)**

This course provides a workshop-style introduction to tools used in biological research. The tools and programming languages include MATLAB, PyMOL, StarGenetics, Python, and R.

## **About QUEST**

The **QUEST Program** is designed to enhance education and training for the next generation of fisheries scientists and current natural resource professionals. The emphasis is on disciplines with a quantitative basis that provide the foundation for careers in economics, ecosystem science and stock assessment.

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